

What is claimed is:

- Claim 1. A water gas shift catalyst comprising platinum and rhenium on an anatase titanium dioxide support doped with lanthanum oxide.
- 5 Claim 2. The catalyst of Claim 1 wherein said lanthanum comprises from about 0.1 wt% up to about 20 wt% of the catalyst.
- Claim 3. The catalyst of Claim 1 wherein said platinum plus said rhenium comprise about 20 wt% of said catalyst.
- Claim 4. The catalyst of Claim 1 wherein said platinum is present at a higher concentration than said rhenium.
- 10 Claim 5. The catalyst of Claim 4 wherein said platinum to rhenium ratio is from about 1 Pt : 0.9 Re to about 5 Pt : 1 Re.
- Claim 6. The catalyst of Claim 5 wherein said platinum:rhenium ratio is about 3:1.
- Claim 7. The catalyst of Claim 1 further comprising an additive selected from the group consisting of cerium, zirconium, tungsten and a combination thereof.
- 15 Claim 8. The catalyst of Claim 7 wherein said additive is present at a concentration of up to about 20 wt% in the catalyst.
- Claim 9. A water gas shift catalyst comprising platinum, rhenium and cerium on an anatase titanium dioxide support doped with lanthanum oxide.
- Claim 10. The catalyst of Claim 9 wherein said lanthanum is comprises from about 0.1 wt%
20 up to about 20 wt% of the catalyst.
- Claim 11. The catalyst of Claim 1 wherein said platinum plus said rhenium comprise about 20 wt% of said catalyst.

Claim 12. The catalyst of Claim 11 wherein said platinum is present at a higher concentration than said rhenium and said platinum to rhenium ratio is from about 1 Pt : 0.9 Re to about 5 Pt : 1 Re.

Claim 13. The catalyst of Claim 9 wherein said cerium is present at a concentration of up to about 20 wt% in the catalyst.

Claim 14. A water gas shift catalyst comprising platinum, rhenium and lanthanum on an anatase titanium dioxide support.

Claim 15. The catalyst of Claim 14 wherein said lanthanum comprises from about 0.1 wt% up to about 20 wt% of the catalyst.

Claim 16. The catalyst of Claim 14 wherein said platinum plus said rhenium comprise about 20 wt% of said catalyst.

Claim 17. The catalyst of Claim 14 wherein said platinum is present at a higher concentration than said rhenium and wherein said platinum to rhenium ratio is from about 1 Pt : 0.9 Re to about 5 Pt : 1 Re.

Claim 18. The catalyst of Claim 14 further comprising an additive selected from the group consisting of cerium, zirconium, tungsten and a combination thereof.

Claim 19. The catalyst of Claim 18 wherein said additive is present at a concentration of up to about 20 wt% in the catalyst.